SR20J9250U✳ Series

POWERbot
user manual

✻ Before operating this unit, please read the instructions carefully.
✻ For indoor use only.

English

imagine the possibilities

Thank you for purchasing a Samsung product.

Samsung
Smart Home

SAMSUNG

Contents

03 Safety information

08 Installation
Accessories / Installation note

10 Charging
Automatic charging / Recharging / Low battery (Lo)

12 Installing the Virtual guard
Part name of the Virtual guard / Inserting batteries

14 Using POWERbot
Selecting cleaning mode

16 Using the remote control
Power/Recharging / Suction power / Additional function / Manual clean mode & Direction control / Point cleaning

18 Name of each part
Top / Bottom / Display panel

19 Setting time/schedule
Setting the time / Setting the schedule

20 Cleaning and maintaining
Cleaning the dustbin / Cleaning the sensors and the camera / Cleaning the Power brush / Cleaning the Driving wheel

22 Samsung Smart Home App
Preparing the network / Using the Samsung Smart Home app

28 Notes and cautions
Charging / In use / Cleaning and maintenance / About battery / About the IrDA sensor

30 Information codes

31 Troubleshooting

33 Open Source Announcement

34 Specifications

Safety information

SAFETY INFORMATION

WARNING

- Before operating the appliance, please read this manual thoroughly and retain it for your reference.

WARNING

- Because these following operating instructions cover various models, the characteristics of your vacuum cleaner may differ slightly from those described in this manual.

CAUTION/WARNING SYMBOLS USED

WARNING	Indicates that a danger of death or serious injury exists.
CAUTION	Indicates that a risk of personal injury or material damage exists.

OTHER SYMBOLS USED

NOTE	Indicates that the following text contains additional important information.
Samsung Smart Home	This Smart Robot vacuum supports from Samsung Smart Home. More detailed information, please visit Samsung.com/Smarthome.

Safety information

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should be observed, including the following:

READ ALL INSTRUCTIONS BEFORE USING YOUR POWERbot.

Unplug from outlet when not in use and before conducting maintenance.

WARNING: to reduce the risk of fire, electric shock, or injury:

GENERAL

- Use only as described in this manual.
- Do not operate POWERbot or charger (station) if it has been damaged in any way.
- If the vacuum cleaner is not working as it should, has been dropped, damaged, left outdoors, or dropped in water, return it to a customer care center.
- Do not handle the charger (station) or POWERbot with wet hands.
- Use only on dry, indoor surfaces.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

BATTERY Charger (station)

- Do not modify the polarized plug to fit a non-polarized outlet or extension cord.
- Do not use outdoors or on wet surfaces.
- Unplug the charger (station) from the outlet when not in use and before servicing.
- Use only the charger (station) supplied by the manufacturer to recharge.
- Do not use with a damaged cord or plug or a loose power outlet.
- Do not pull or carry by the cord, use the cord as a handle, close the door on the cord, or pull the cord around sharp edges or corners. Keep the cord away from heated surfaces.
- Do not use extension cords or outlets with inadequate current carrying capacity.
- Do not unplug by pulling on the cord. To unplug, grasp the plug, not the cord.
- Do not mutilate or incinerate batteries as they will explode at high temperatures.
- Do not attempt to open the charger (station). Repairs should only be carried out by a qualified customer care center.
- Do not expose the charger (station) to high temperatures or allow moisture or humidity of any kind to come into contact with the charger (station).

POWERbot

- Do not pick up hard or sharp objects such as glass, nails, screws, coins, and etc.
- Do not use without a filter in place. When servicing the unit, never put fingers or other objects into the fan chamber in case the unit accidentally turns on.
- Do not put any objects into openings. Do not use with any openings blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- Do not pick up toxic materials (chlorine bleach, ammonia, drain cleaner, etc.).
- Do not pick up anything that is burning or smoke, such as cigarettes, matches, or hot ashes.
- Do not use to pick up flammable or combustible liquids such as gasoline, nor use on areas where they may be present.
- Locations with candles or desk lamps on the floor.
- Locations with unattended fires (fire or embers).
- Locations with distilled alcohol, thinner, ashtrays with burning cigarettes, etc.
- Do not use POWERbot in an enclosed space filled with vapours given off by oil based paint, paint thinner, moth proofing substances, flammable dust, or other explosive or toxic vapours.
- Leaks from battery cells can occur under extreme usage or temperature conditions. If the liquid gets on skin, wash quickly with water. If the liquid gets into the eyes, flush them immediately with clean water for a minimum of 10 minutes. Seek medical attention.

Safety information

⚠ WARNING Power related

- Please prevent any risk of electric shock or fire.
  - Do not damage the power cord.
  - Do not pull the power cord too hard or touch the power plug with wet hands.
  - Do not use a power source other than 100 - 240 V~ and also do not use a multi outlet to supply power to number of devices at the same time. (Do not leave the cord carelessly on the floor.)
  - Do not use a damaged power plug, power cord or loose power outlet.
- Clean dust or any foreign matters on the pin and contact part of the power plug.
  - There is a risk of electric shock or malfunction.

⚠ WARNING Before use

- Do not use POWERbot near combustible materials.
  - Place near candle, desktop lamps, fireplace or near combustible materials such as gasoline, alcohol, thinners etc.
- The POWERbot is intended for household use therefore do not use it in an attic, basement, storage, industrial building, out of indoor space, places with moisture (such as bathroom, laundry), on the table or shelves.
  - The POWERbot can be damaged or malfunction.
- Install the Virtual guard in front of dangerous areas (such as stairs or railings) to prevent damaging the product or getting injured.
  - For your safety, always keep the cliff sensor clean.
- Be sure POWERbot does not pass through or touch any kind of liquids.
  - The POWERbot can be severely damaged and it may contaminate other areas if the wheels pass through liquid.
- Do not spill any liquids on the charger.
  - There is a risk of fire or electric shock.
- Do not use the charger for anything other than its intended purpose.
  - There is a risk of fire or severe damage to the charger.
- Always keep the cliff sensor clean for your safety.

⚠ WARNING In use

- If any abnormal sounds, smells or smoke come from POWERbot, immediately shut off the emergency switch at the bottom of POWERbot and contact a service center.

⚠ WARNING Cleaning and maintenance

- When power cord is damaged, contact a service center to get it replaced by certified repairman.
  - There is a risk of fire or electric shock.
- Please check with a Samsung Electronics service center when exchanging batteries.
  - Using batteries from other products can cause malfunction.

⚠ CAUTION Before use

- Insert the dustbin before using POWERbot.
- Open room doors before cleaning in order to have all rooms cleaned and install a Virtual guard in front of entryway, balconies, bathrooms, or other areas where POWERbot may fall.
- Be careful with the followings for proper automatic recharging.
  - Always turn on the power of the charger.
  - Install the charger where POWERbot can easily find.
  - Do not leave any object in front of the charger.
- When installing the charger, do not leave the cord carelessly on the floor since POWERbot may get tangled by it.
- Do not use POWERbot on black colored floors.
  - The POWERbot may not be able to operate normally.
- Do not pick up POWERbot by the dustbin holder.
- Do not place any objects within 0.5 m to both sides and 1 m to the front of the charger.
- Make sure the charger's charging contact is not damaged or have any foreign matters on it.
- Do not install the charger in an area with a dark floor.
  - If the floor around the charger is dark, recharging is hindered.
- Move any obstacles that may disturb POWERbot's movement (such as children's indoor swing or slides) before cleaning.

⚠ CAUTION In use

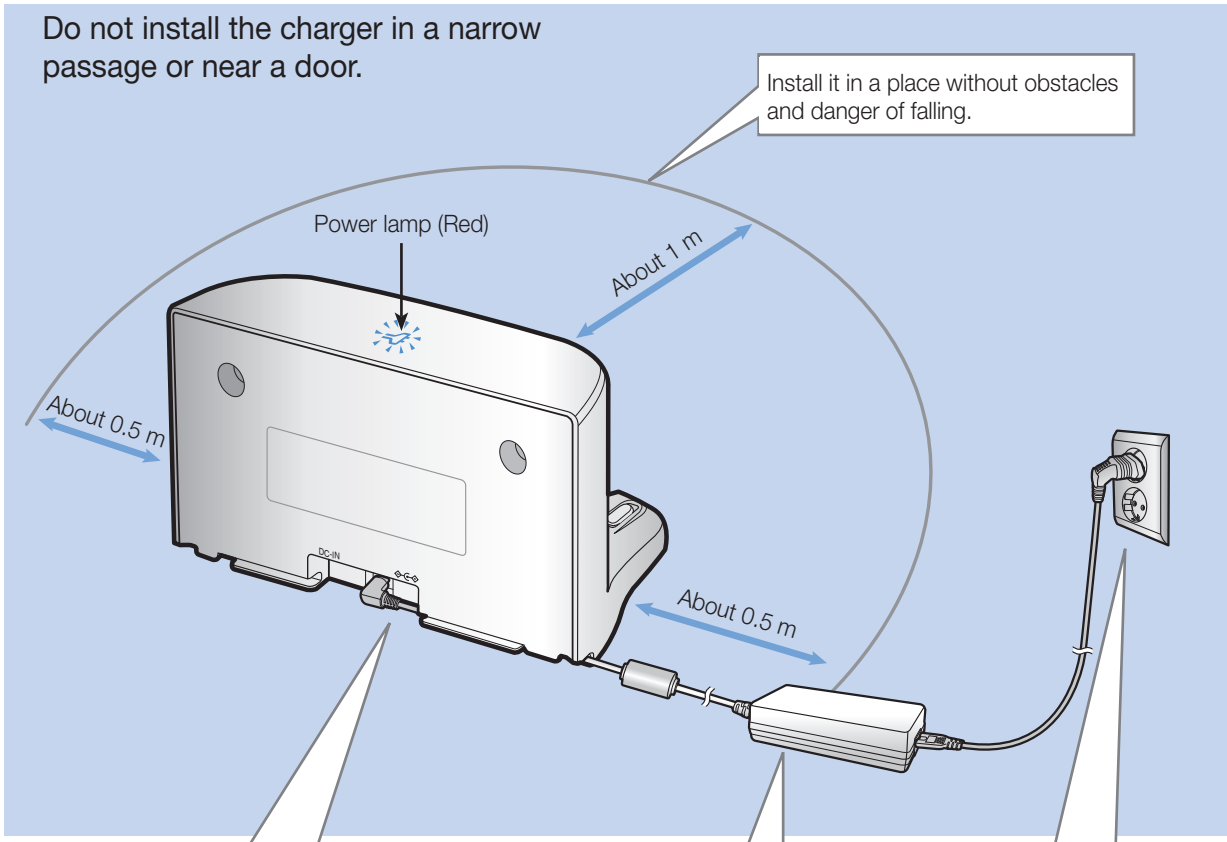
- Using POWERbot on thick carpet may damage both POWERbot and the carpet.
  - The POWERbot cannot pass over carpet that is thicker than 1 cm.
- Do not use POWERbot on tables or other high surfaces.
  - There is a risk of damage if it falls.
- The POWERbot may bump into chair, desk legs therefore move them away for faster and efficient cleaning.
- When POWERbot is operating, do not lift it up or carry it to another area.
- Do not hold by driving wheels of POWERbot when carrying it to another area.
- Do not put any objects on top of POWERbot since it may cause malfunction.
- Remove any large papers or plastic bags immediately when using POWERbot since they may block the intake.
- Do not aim the red pointer directly at people or animals.

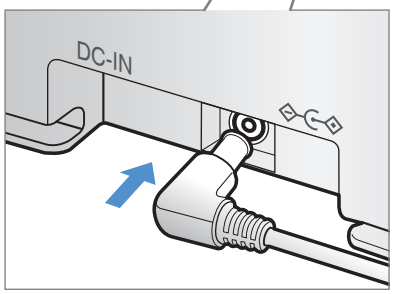
⚠ CAUTION Cleaning and maintenance

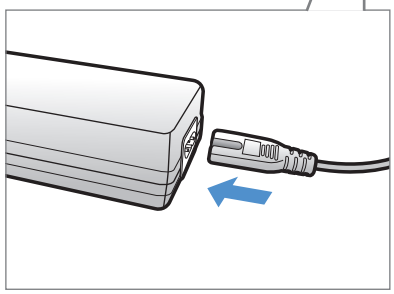
- Prevent any damage to POWERbot by complying the followings.
  - Do not clean POWERbot by spraying water directly onto it or use benzene, thinner, acetone or alcohol to clean it.
- Do not disassemble or repair POWERbot. This should only be done by a certified repairman.
- Always keep the obstacle sensor and cliff sensor clean.
  - If foreign matter accumulates, sensors may malfunction.

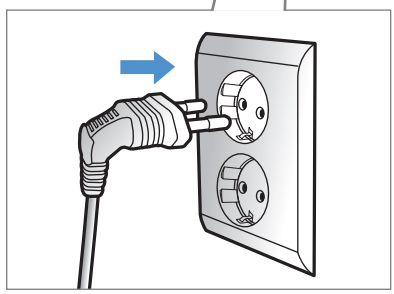
Installation

Power of the charger must be on at all times.


Do not install the charger in a narrow passage or near a door.
Install it in a place without obstacles and danger of falling.
Power lamp (Red)
About 1 m
About 0.5 m
About 0.5 m
DC-IN







1 Connect the adapter jack to the charger

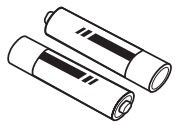
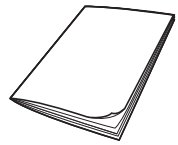
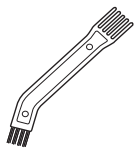
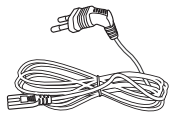
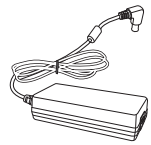
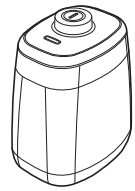
2 Connect the power cord to the adapter

When using the adapter, the side with the sticker attached must face down.

3 Connect the power plug to the outlet

Power lamp (Red) will turn on.

Accessories

Remote control	 Batteries (AAA type)	 User manual	Spare filter
 Cleaning brush	 **Power cord**	 Adapter	 Virtual guard

Installation note

Note

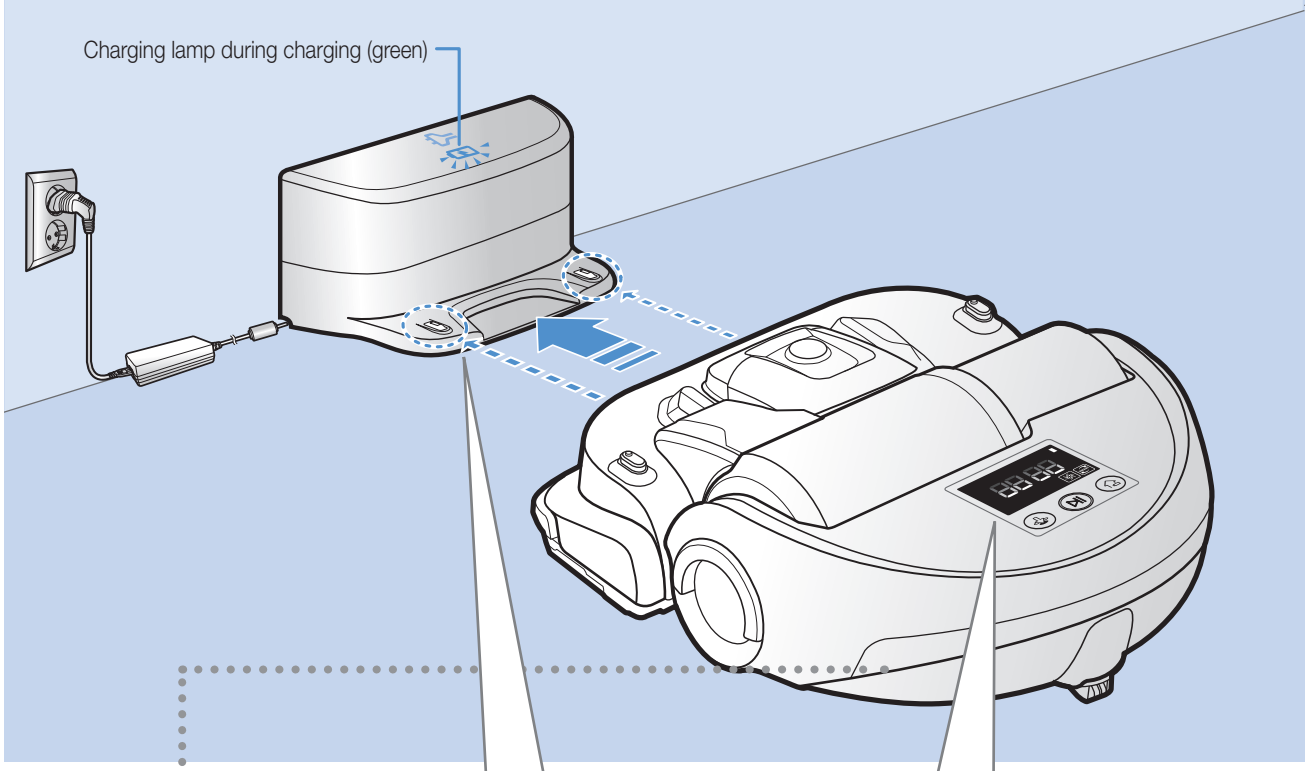
- Install charger in a place where the floor and wall are level.
- It is best to install the charger along the grain of wooden floors.
- If the emergency switch is off, POWERbot will not charge even if it is docked on the charger.
- Always turn on the power of the charger.
  - If power is not supplied to the charger, POWERbot cannot find it and cannot automatically recharge.
  - If POWERbot is left detached from the charger, the battery will drain naturally.
- If POWERbot is in energy-saving mode, power will not come on even if the emergency switch is turned off and then on. Press and hold the [Start/Stop] button on POWERbot.

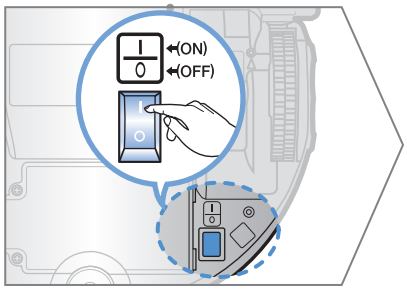
Charging

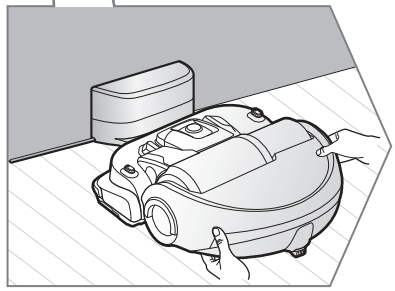
It takes approximately 160 minutes to completely charge when charging for the first time after purchase and can be used for approximately 30 minutes in Max mode.

WARNING

- Rated input voltage of this product is 100 - 240 V~.







1 Turn on the emergency switch on the bottom

You must turn on the emergency switch to turn on POWERbot.

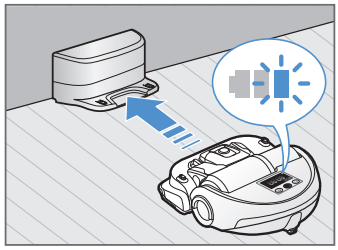
2 Manually charge POWERbot by placing it on the charger

Make sure charge pins of POWERbot and the charger is aligned.

3 Check the charging status

"88:88" will turn on according to charging progress and "FULL" will turn on when charging is complete.

Automatic charging

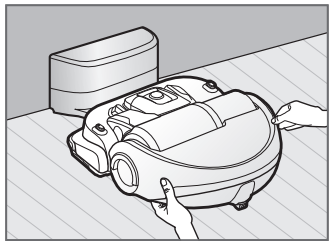


When the battery indicator blinks during cleaning, POWERbot will return to the charger to charge itself automatically.

Recharging

You may command POWERbot to recharge at the charger while it is in cleaning process.

Low battery (Lo)



Manually charge POWERbot by placing it on the charger.

Steps to take if recharging is not being executed

Check the installation status of the charger when:

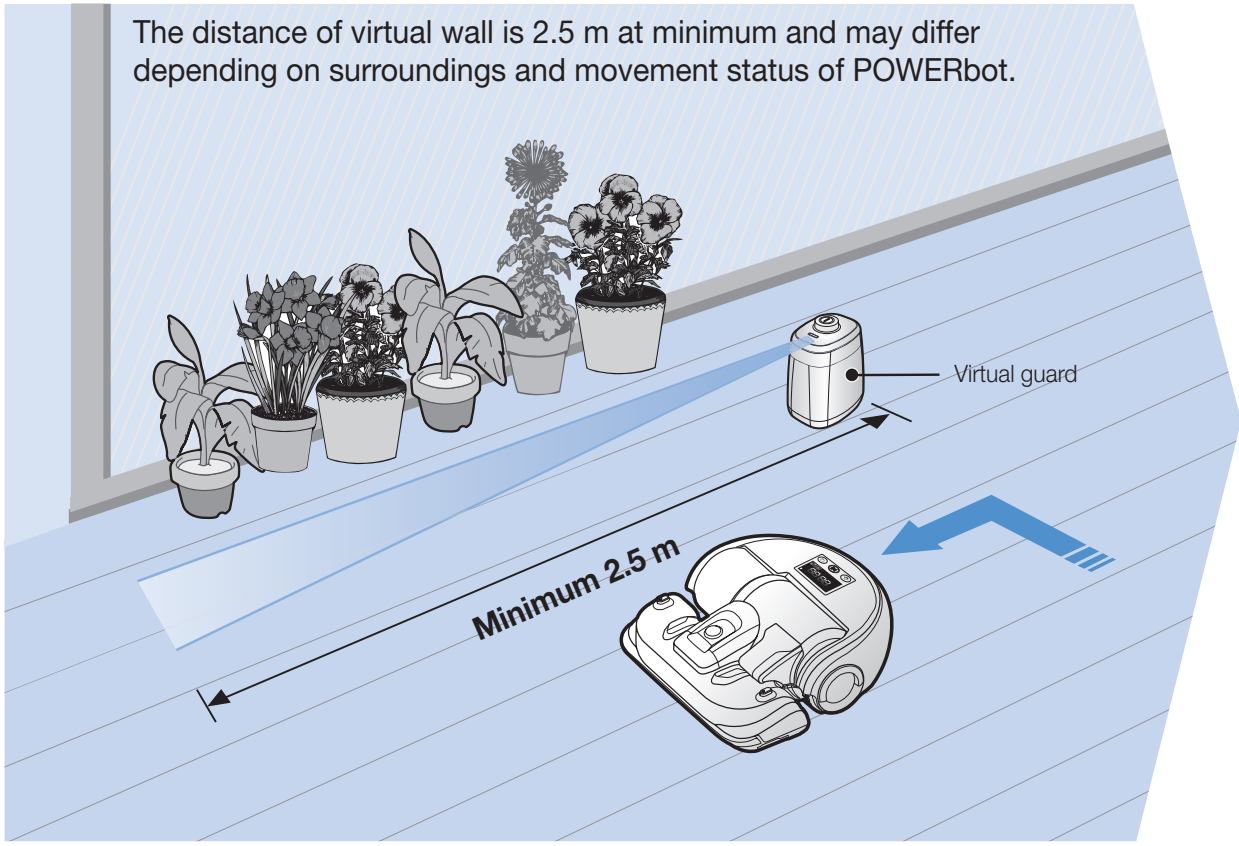
- ▶charger is located in a place where POWERbot cannot easily access
- ▶distance of the charger and POWERbot is over 5 m apart
  - – It may take a long time for POWERbot to return to the charger for recharging

Manually charge POWERbot when:

- ▶charger is located in a corner
- ▶battery is fully exhausted
- ▶POWERbot is stuck by obstacles (furniture etc.)
- ▶POWERbot can't climb threshold near charger (Height of the threshold that POWERbot can climb: about 1.5 cm and below)
- ▶Battery indicator blinks and "Lo" is displayed
- ▶POWERbot is set on Spot clean or Manual clean mode

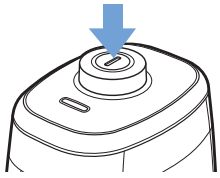
Installing the Virtual guard

Infrared ray from the Virtual guard will restrict POWERbot from approaching certain area.


The distance of virtual wall is 2.5 m at minimum and may differ depending on surroundings and movement status of POWERbot.
Virtual guard
Minimum 2.5 m

1 Press the Power button to turn it on

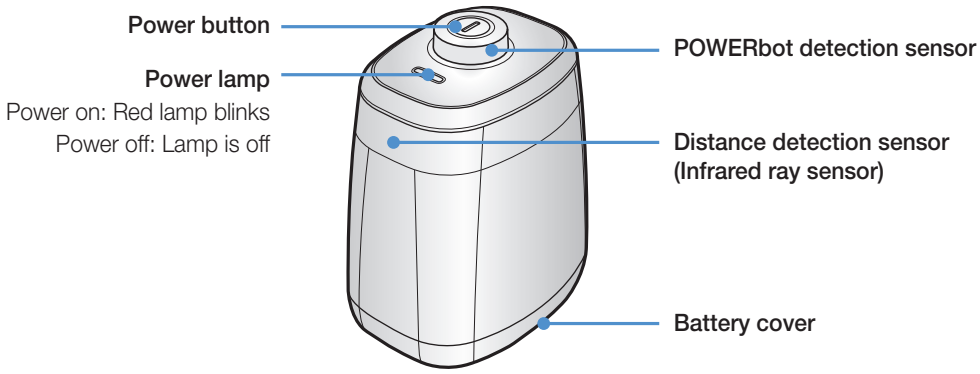
Power lamp (Red) will blink.



2 Install the Virtual guard where you want to restrict POWERbot's entrance

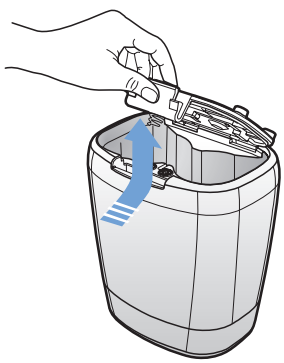
Make sure that distance sensor is facing at the desired direction you want to create a invisible barrier (which will restrict POWERbot's approach).

Part name of the Virtual guard

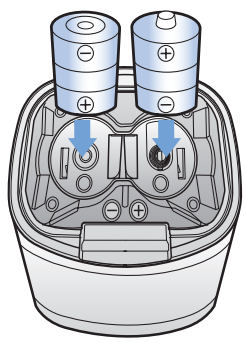


Inserting batteries

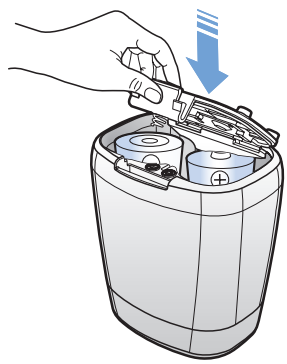
Batteries for Virtual guard must be purchased separately.



1 Open the battery cover of the Virtual guard by pressing the locking tab and lift it up.



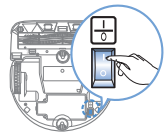
2 Insert the alkaline batteries (D type) as shown in the illustration (check the +, - polarity).



3 Insert the tip of the cover into the slot and push the other end to close the battery cover.

✻ Specification: type D (LR20) batteries

Using POWERbot



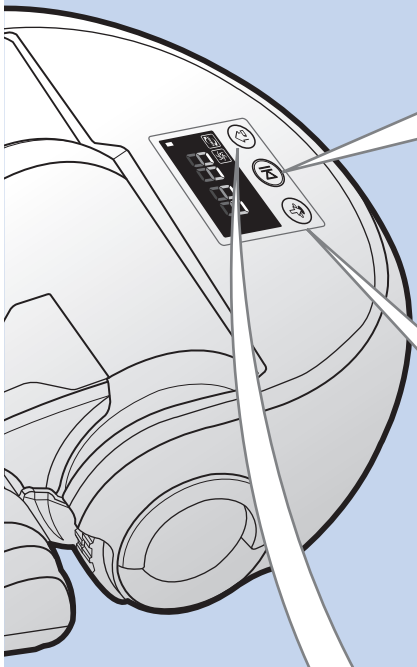
You must turn on the emergency switch before using POWERbot.

Turning the power on/off

Press the ⏯ button for more than 3 second

WARNING

- When POWERbot is not used for 30 minutes, it will return to the charger to charge itself automatically.



Using Auto clean mode

The POWERbot moves and cleans automatically until it cleans entire space once.

✻ Stop cleaning: Press the ⏯ button

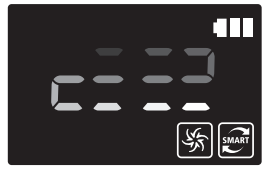
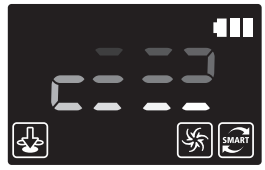
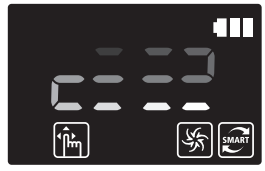
Using Spot clean mode

The POWERbot cleans a localized area intensely.

Recharging

You may command POWERbot to recharge at the charger automatically while it is in cleaning process.

Selecting cleaning mode

Cleaning mode	How to select	Displayed icon
Auto clean		
Spot clean	 ✻ Spot clean mode can be selected only by pressing this button on the main body of the POWERbot.	
Manual clean	✻ Manual clean mode can be selected by the direction control buttons of the remote control.	

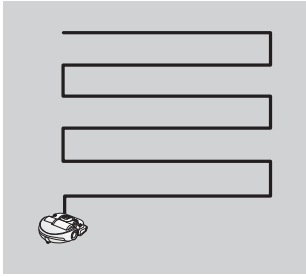
✻ When cleaning is done within 15 minutes in Auto clean mode, the POWERbot will repeat cleaning one more time.

✻ When dust intake is detected in Spot/Manual clean mode, suction of the POWERbot will become stronger.

✻ If the POWERbot fails to return to the charger, it will be turned into the energy-saving mode. Then the display panel of the main body will be turned off. Press [Start/Stop] or [Power] button to cancel the energy-saving mode.

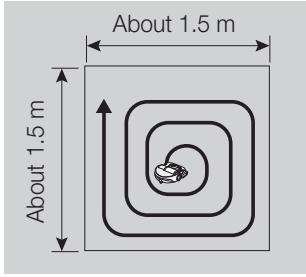
✻ Charging and cleaning times can differ according to conditions of use.

Cleaning method for each modes



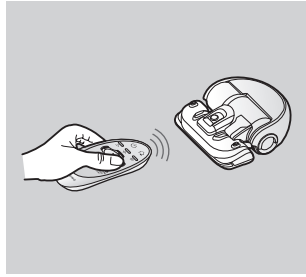
Auto clean

Cleans automatically until entire space is cleaned once.



Spot clean

Cleans a localized area intensely. It can be used to clean bread or cookie crumbs.



Manual clean

You can move POWERbot with the remote control to clean the desired spot.

Using the remote control

1 Power / Recharging / Start/Stop

Power		Turn POWERbot's power on/off
Recharging		Select to recharge POWERbot at the charger automatically
Start/Stop		Select to start or stop cleaning process

2 Suction power

Max mode		Select to clean with the strongest suction power
Normal mode		Select to clean with moderate suction power
Quiet mode		Select to clean with lower operation noise

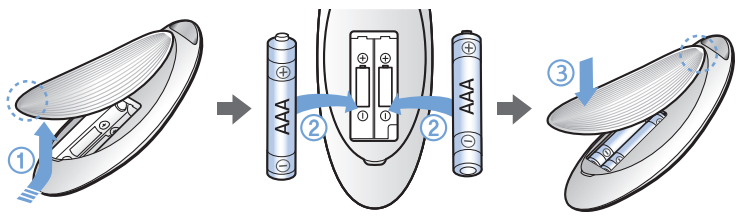
3 Additional function

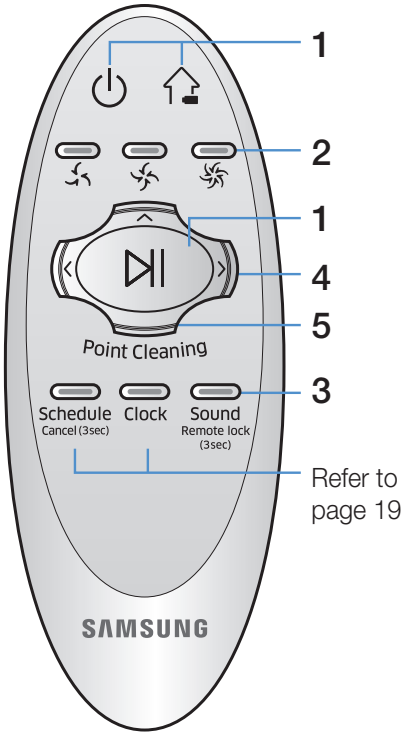
Sound	Sound	Each time you press this button, Sound Effects → Mute is selected in this sequence.
Remote control	Sound Remote lock (3sec)	Select to turn on or off the remote control ✻ Press [Sound] button for 3 seconds.. ✻ Wi-Fi connection should be done to control the POWERbot using Samsung Smart Home app.

✻ The previously selected setting will not change even if the emergency switch is turned off and then on.

Inserting batteries

Open the battery cover by lifting it up while pressing the locking tab and insert the batteries as shown in the illustration. Then, close the cover until it clicks into place.





4 Manual clean mode & Direction control

	Select to move forward
	Select to turn left
	Select to turn right

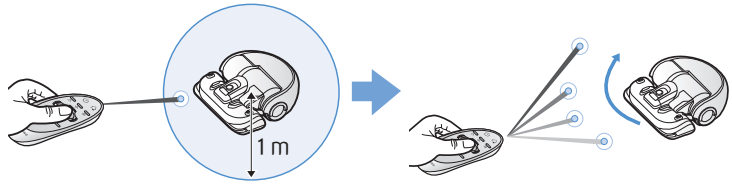
✻Moving backward is not available.

5 Point cleaning

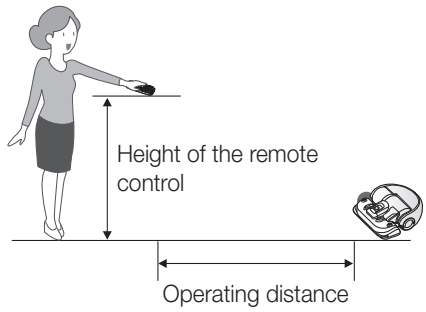
You can use the remote control to point and clean the desired spot while the POWERbot is in cleaning process.

Point the red light on the floor within 1 m around POWERbot's location.

Press and hold the Point cleaning button to move the red light to the desired spot. The POWERbot will follow the light while cleaning.

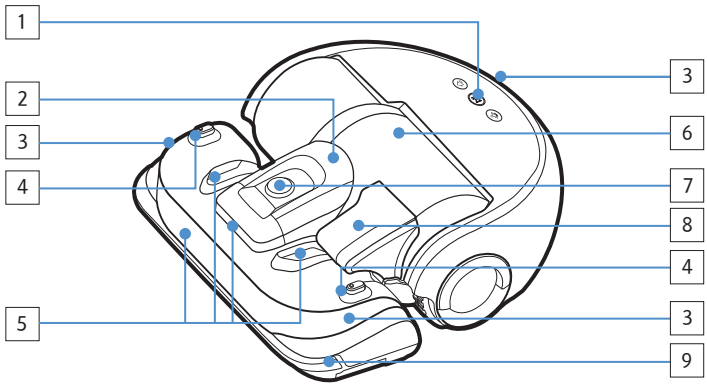


Operating distance of the remote control



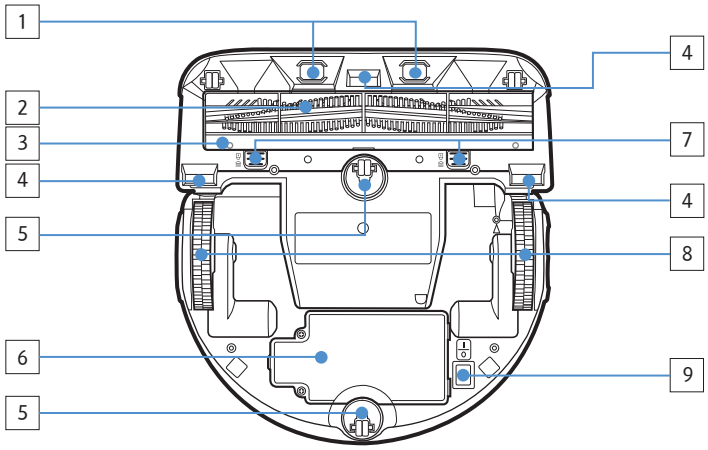
Height of the remote control	1 m	1.5 m
Operating distance	About 2 m	About 2.5 m

Name of each part



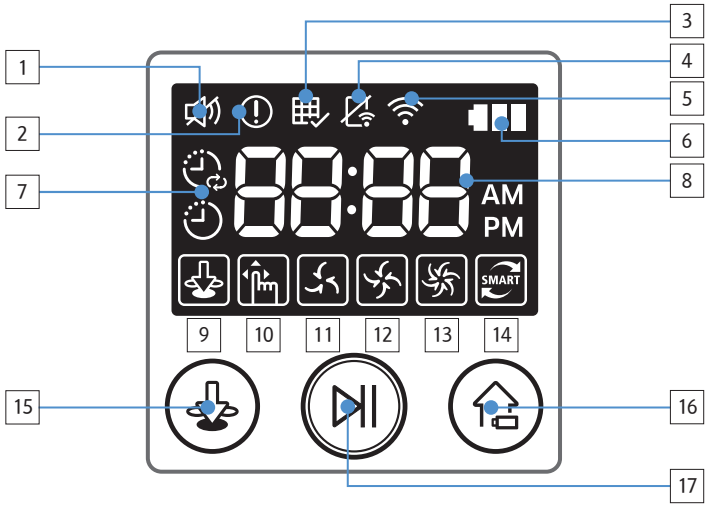
Top

1. Display panel
2. Dustbin holder
3. Remote control signal receiver
4. Virtual guard sensor
5. Obstacle sensor
6. Dustbin
7. Camera
8. Dustbin handle
9. Bumper sensor



Bottom

1. Charge pins
2. Power brush
3. Power brush cover
4. Cliff sensor
5. Roller
6. Battery cover
7. Power brush cover button
8. Driving wheel
9. Emergency switch



Display panel

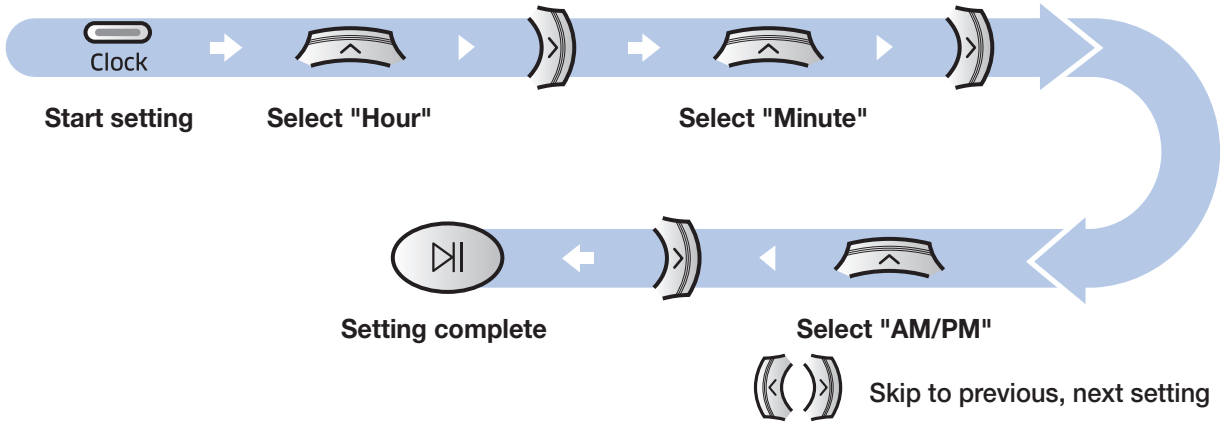
1. Mute
2. Information Indicator
3. Filter inspection
4. Remote lock
5. Wi-Fi
6. Battery indicator
7. One-time/Daily schedule
8. Number display
9. Spot clean mode
10. Manual clean mode
11. Quiet mode
12. Normal mode
13. Max mode
14. Dust sensor
15. Spot cleaning button
16. Start/Stop button
17. Recharging button

Setting time/schedule

Only Auto clean mode can be scheduled.

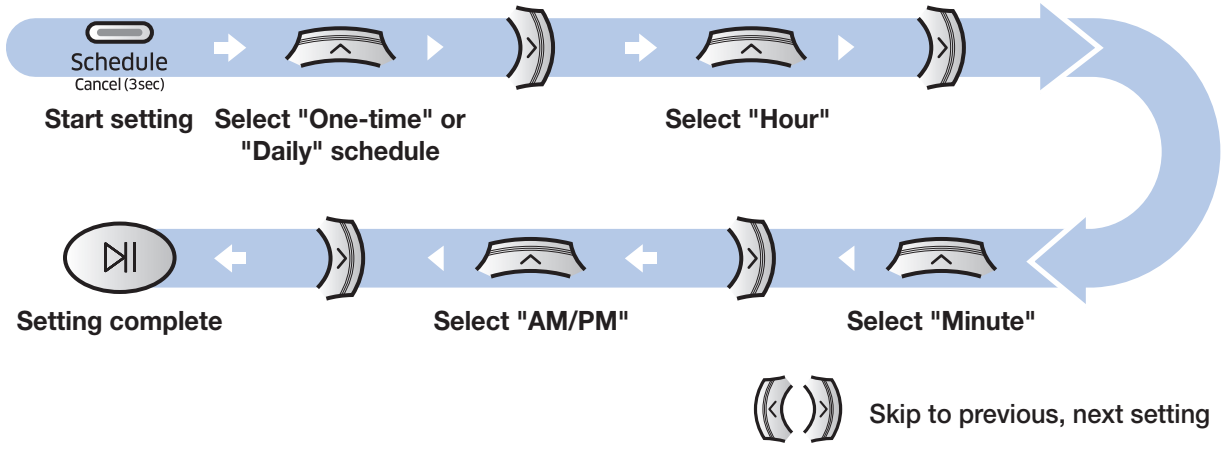
Setting the time

You must set the current time before using the One-time/daily schedule.



Setting the schedule

Setting/cancelling the schedule can only be done while POWERbot is docked on the charger.



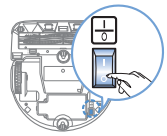
Cancelling during setup

▶Setting will be canceled automatically when there's no input for 7 seconds

Cancelling One-time/Daily schedule

When both One-time/ Daily schedule is set	Schedule Cancel (3sec)	or Schedule Cancel (3sec)	or Schedule Cancel (3sec)
	Press for 3 sec.	Select the schedule	Cancel complete
When either one of One-time or Daily schedule is set	Schedule Cancel (3sec)		
	Press for 3 sec.		

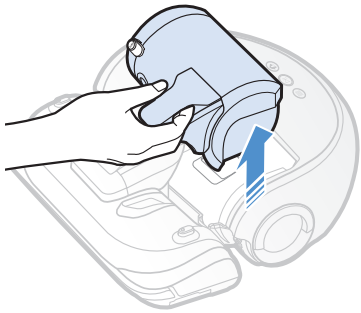
Cleaning and maintaining



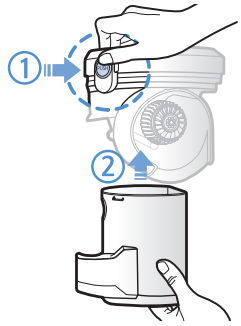
You must turn off the emergency switch before cleaning POWERbot.

Cleaning the dustbin

Clean the dustbin when filter inspection indicator ( ) turns on or if there's too much dust in the dustbin.

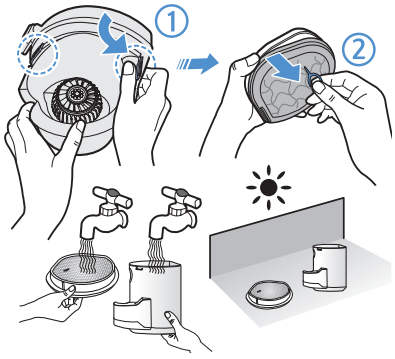


1 Remove the dustbin

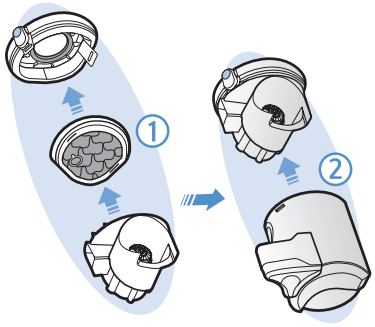


2 Remove the dustbin cover

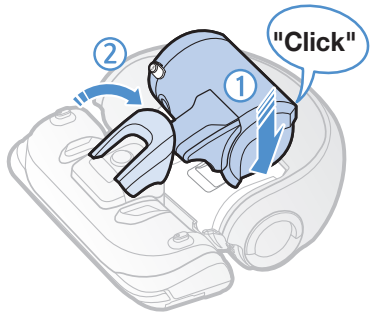
3 Remove dust in the dustbin and cyclone unit



4 Detach the cyclone unit from the dustbin cover then wash the dustbin and the filter



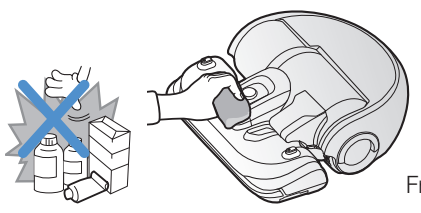
5 Reassemble the dustbin

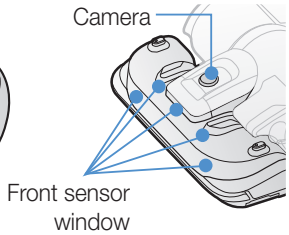


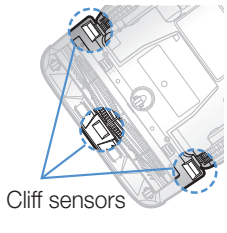
6 Reinsert the dustbin into the main body until it clicks

Cleaning the sensors and the camera

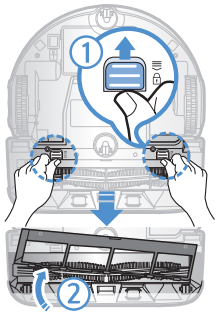
Lightly wipe with soft cloth.



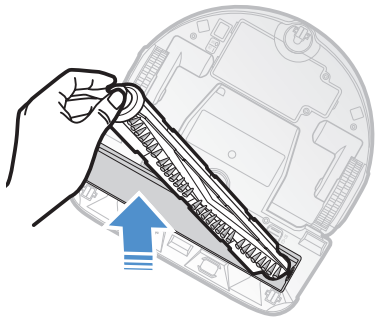




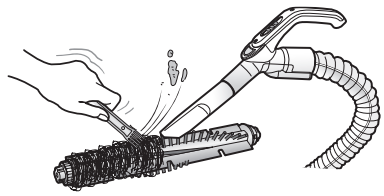
Cleaning the Power brush



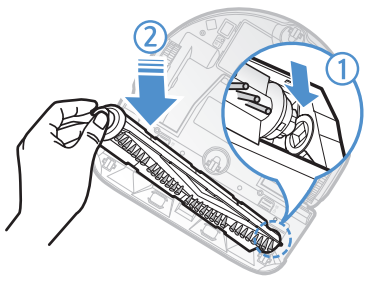
1 Remove the Power brush cover



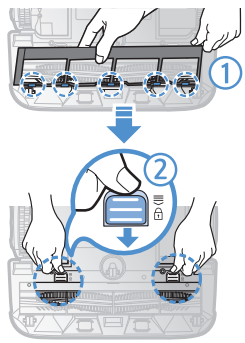
2 Remove the Power brush



3 Clean the Power brush

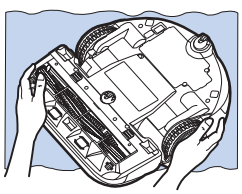


4 Reassemble the Power brush

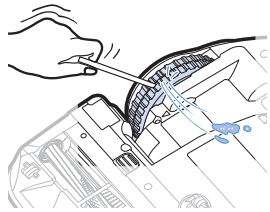


5 Reassemble the Power brush cover

Cleaning the Driving wheel



1 Put a soft cloth on the floor and place POWERbot upside-down.



2 Use a blunt rod or tweezers to remove the foreign matters.

Samsung Smart Home App

Preparing the network

Setting up the wireless router

- This product supports only DHCP(Dynamic Host Configuration Protocol). Please check if the DHCP server option function of a wireless router is activated.
- The supported types of authorization/encryption of the wireless router are WEP-OPEN, WPA-PSK/TKIP and WPA2-PSK/AES 801.11n.
  - WPA2-PSK/AES is recommended to be used.
- The quality of connection of the wireless network may be influenced by the surrounding wireless environment.
- When your Internet service provider has permanently registered an MAC address (a unique identification number) of your PC or modem, your POWERbot may be unavailable to be connected to the Internet. Ask your Internet service provider about the procedure to connect an apparatus other than a PC to the Internet.
- If your internet service provider requires your ID or password to connect to the internet, your POWERbot may not be able to connect to the internet. In this case, you must enter your ID or password when connecting to the internet.
- The connection to the Internet may be impossible because of issues of firewall. Ask your Internet service provider for resolving the issue.
- Some wireless routers may convey an abnormal Domain Name Server (DNS) address even if the Internet is not connected. In this case, inquire the provider of the pertinent wireless router and your Internet service provider.
- If you still cannot connect to the Internet even after trying the procedure informed by your Internet service provider, please ask an agency or service center of Samsung Electronics.

Note

- Please refer to the user manual of the pertinent wireless router without access problems.
- Samsung POWERbots support only Wi-Fi 2.4 Ghz.
- Samsung POWERbots support the communication protocol of the methods of IEEE 802.11b/g/n and Wi-Fi Direct. (Samsung Electronics recommends to use IEEE 802.11n.)
- A wireless router with no authorization of Wi-Fi may be unavailable to be connected to the POWERbot.
- When the power is supplied and the POWERbot is docked on the charger, the POWERbot will be connected to the server and then check if there is software updates. If there is the latest software, it will be automatically downloaded and updated.
- If “UPAM” is displayed on the display panel while the POWERbot is charging, it means that the update is in progress. Please wait for completing the rebooting.
- If the product registration is not done, please follow the following instructions:
  - Refer to the popup message and retry the registraion procedure.
  - Check if the UPnP option of the wireless router is available and retry the registration procedure.
  - Check if the operating mode of the wireless router is a router mode and retry the registration procedure.
  - If you have more than two POWERbot, turn off the others to register the one. The connection must be one to one.
- Samsung Smart Home Service does not guarantee a normal operation under firewall environment.

▶ If the POWERbot and smart phone are not connected to the same wireless router, response delay may occur according to network environment.

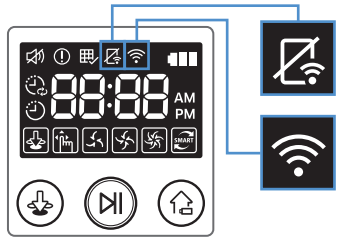
▶ Remote lock and Wi-Fi indicator

– On : Remote control is locked.

– Off : Remote control is allowed.

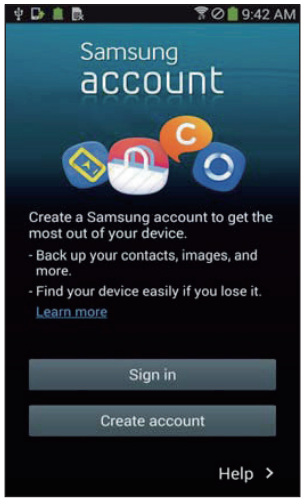
– Off : The POWERbot is connecting to the wireless router.

– On : The POWERbot is connected to the wireless router.



Using the Samsung Smart Home app

Creating your Samsung account


9:42 AM
Samsung account
Create a Samsung account to get the most out of your device.
- Back up your contacts, images, and more.
- Find your device easily if you lose it.
Learn more
Sign in
Create account
Help >

If you want to use the Samsung Smart Home app, please register your Samsung account in Samsung account app.

Note

▶ If you do not set auto-login to the Samsung Smart Home app and run the app, the screen of Samsung account appears one time at first.

▶ If you are a user of a Samsung smart phone, register your Samsung account in the settings of the smart phone, and then the automatic login gets set without any other login processes, and you can use the Samsung smart home app immediately.

Downloading Samsung Smart Home app

You can download the Samsung Smart Home app by searching for “Samsung Smart Home App” at the Google Play Store, Samsung Galaxy Apps and Apple App store.

Note

▶ Samsung Smart Home apps are compatible with selected Samsung Galaxy S and Samsung Note series devices.

– support Android™(2) 4.0 (since Galaxy S2) or higher and iOS7 or higher

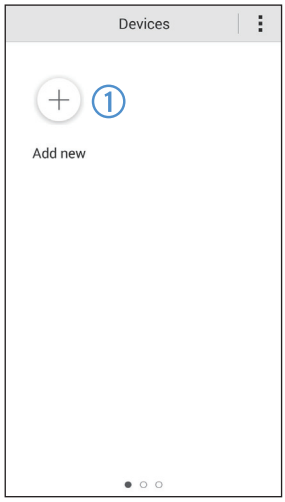
– Application must be downloaded. Internet connection required. Data changes may apply.

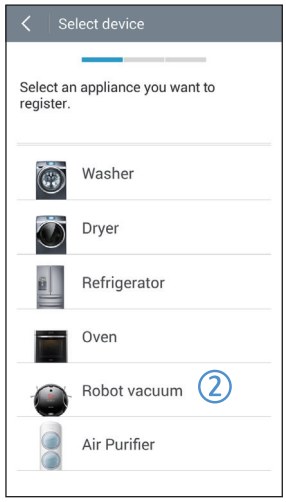
– Android is a trademark of Google Inc

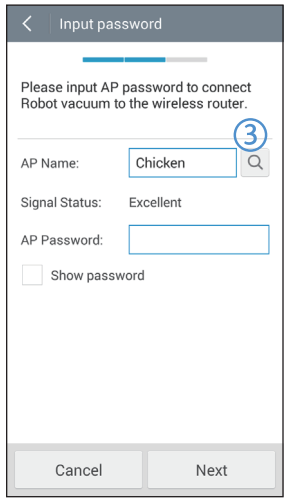
Samsung Smart Home App

Registering the product (Easy-Setup)

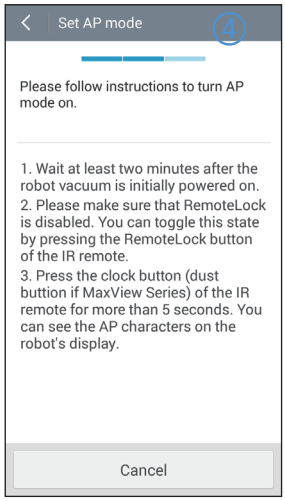
Register the product to the Samsung Smart Home Service before using the Samsung Smart Home app.

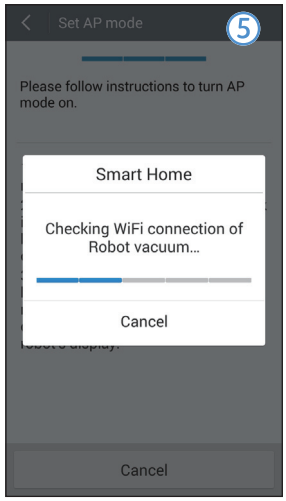


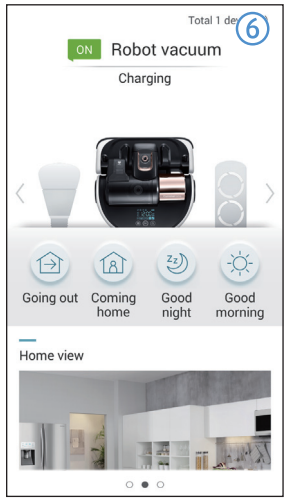




1. Press the Add new icon on the device list screen of the Samsung Smart Home app to start the registration of the product.
2. Select the Robot vacuum icon.
3. Enter the information of the wireless router to be connected.


Set AP mode
4
Please follow instructions to turn AP mode on.
1. Wait at least two minutes after the robot vacuum is initially powered on.
2. Please make sure that RemoteLock is disabled. You can toggle this state by pressing the RemoteLock button of the IR remote.
3. Press the clock button (dust buttion if MaxView Series) of the IR remote for more than 5 seconds. You can see the AP characters on the robot's display.
Cancel



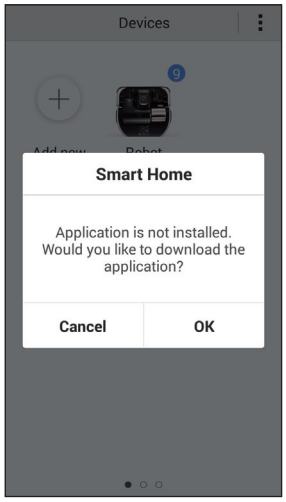


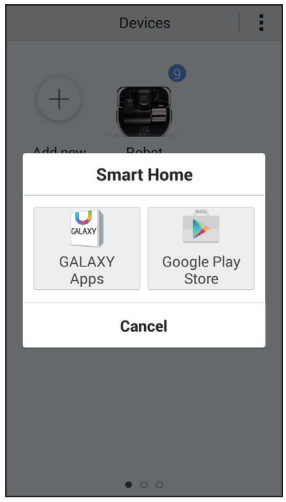
4. Set the POWERbot according to the guidance on the screen.
   – To turn on the AP mode immediately, press [Clock] button for more than 5 seconds.
5. Then, the registration will proceed automatically.
6. When the product registration is complete, the main screen of the Samsung Smart Home app will appear.

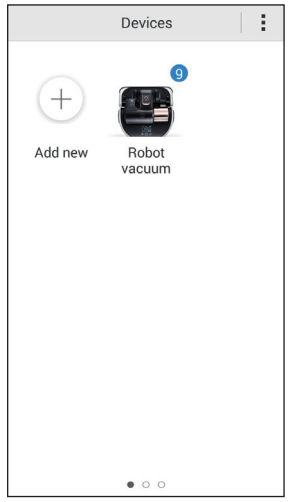
✻ If the product registration is failed, refer to page 14.

Downloading Samsung Smart Robot vacuum app

You can use more diverse functions through the Samsung Smart Robot vacuum App, which is exclusively for the POWERbot.

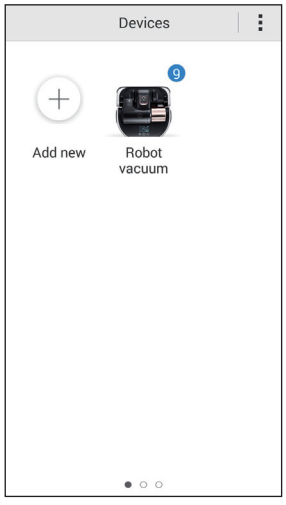






1. Select the Robot vacuum icon on the device list screen of the Samsung Smart Home app. If the Samsung Smart Robot vacuum app is not installed, you will be moved to the Google Play Store automatically.
2. Install the Samsung Smart Robot vacuum app.
3. If the installation is complete, select the Robot vacuum icon again on the device list screen of the Samsung Smart Home app.

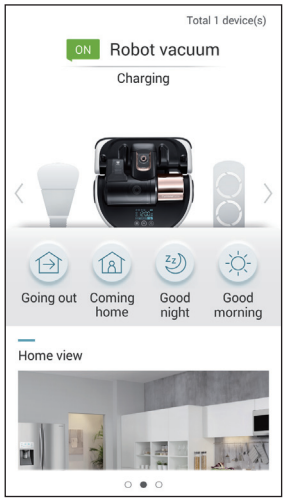
Screen description and major functions



Device list screen

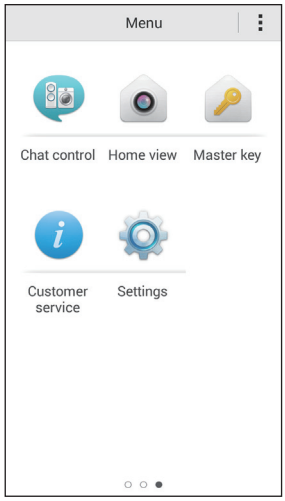
▶You can register smart home appliances made by Samsung Electronics on the Smart Home Service to control them altogether remotely.

Samsung Smart Home App



Main screen

- ▶Select the Robot vacuum icon on the main screen, and you can move to the POWERbot control screen.
- ▶You can control your smart home appliances made by Samsung Electronics by Going out, Coming home, Good night, and Good morning icons.
- ▶Home view function is not supported for a POWERbot.



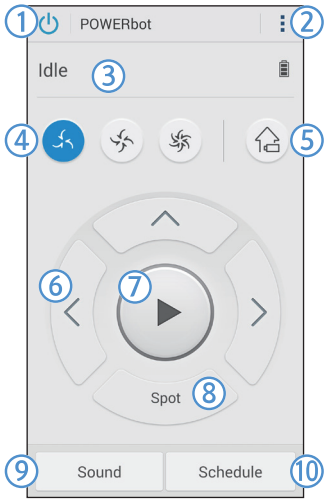
User menu screen

- ▶You can control the smart home appliances made by Samsung Electronics with Chat control and Master key functions.

Chat control	▶You can control the smart home appliances or check about the status of them conveniently.
Master key	▶You can control several home appliances at once using the master keys(Going out, Coming home, Good night, Good morning).
Customer service	▶You can see the manual of the product. ▶When a product is out of order, you can consult with our customer center and request for an after-sales service.

Controlling POWERbot

When accessing the Samsung Smart Robot vacuum app, the control screen will appear.



1. Power on/off
2. Option (Settings, Customer Service)
3. Current status indicator
4. Suction power
5. Recharging
6. Manual clean mode and Direction control (forward movement, left turn, right turn)
7. Auto clean mode start/stop
8. Spot clean mode
9. Sound (Man, Woman, Sound Effect, Mute)
10. Schedule (One-time/Daily schedule)

Note

▶ A scheduled cleaning runs only when the POWERbot is docked on the charger.

Notes and cautions

Charging

Note

- If the battery overheats during charging, it may take longer to charge.
- When automatic charging is not working, please check the followings.
  - Turn the emergency switch (on the bottom of POWERbot) off and on again.
  - Unplug the charger's power plug and then plug it back on.
  - Check whether there is any foreign matter in the charge pins and clean POWERbot and the charge pins of the charger with a dry cloth or rag.
  - Check for any obstacles such as reflective objects, chairs, etc. near the charger.
- If POWERbot is left detached from the charger, the battery will drain naturally.
  - Try to keep POWERbot being charged on the charger. (Turn off the emergency switch and leave the charger unplugged when planning to leave the house for long periods of time by going on a business trip or vacation, etc.,)

In use

Note

- The POWERbot may get caught on thresholds, etc. during cleaning.
  - To restart operation, shut off the emergency switch, move POWERbot to an area where it can move easily and then turn on the power again.
- The POWERbot cannot completely clean areas it cannot enter, such as corners, between the wall and sofa, etc.
  - Please use another cleaning tool to clean them regularly.
- The POWERbot cannot vacuum clumps of dirt, so some may remain on the floor after cleaning.
  - Please use another cleaning tool to clean them regularly.
- If the battery becomes low during Auto clean mode, POWERbot will recharge and finish cleaning the remaining area after recharging. (Repeat cleaning frequency: 1 time)
- You cannot select and execute Manual clean mode while charging.
  - If you press Manual clean / Point cleaning button while charging, the POWERbot will be detached from the charger and then turn into the standby mode.
- Do not unnecessarily move POWERbot or press buttons while it is in Auto clean mode. It assumes that cleaning is complete and starts cleaning again from the beginning.

Cleaning and maintenance

Note

- If you washed the dustbin and filter with water
  - Dustbin: Completely wipe out the water.
  - Filter: Completely dry it in a shade before use.

Caution

- Watch your finger when attaching or detaching the filter, since they may get stuck in the dustbin's intake.
- To avoid blockages by foreign matter, do not let toothpicks, cotton swabs etc. from being vacuumed by POWERbot.
- If it is difficult to remove foreign matters from the Power brush, contact a service center.
- Since the power brush removes dirt from the floor during cleaning, foreign matters such as thread, long hair, etc. may get caught in it. Therefore check and clean it regularly.

About battery

Note

- Purchase batteries at service centers and check the genuine part symbol (SAMSUNG) and model name before purchasing.
- This battery is exclusive for Samsung Electronics POWERbot; do not use it for any other product.
- Do not disassemble or modify it.
- Do not throw the battery out in fire or heat it up.
- Do not connect any metallic object to the charging contacts (+, -).
- Store it in indoor (at 0 °C~40 °C).
- If the battery malfunctions, do not disassemble it yourself; contact your nearest service center.
- Battery charging time and usage time may decrease the more the battery is used. If the battery's lifespan has been exceeded, have it replaced at a service center.
- The battery warranty period is 6 months from the date of purchase.

About the IrDA sensor

Caution

- The infrared signal transmission may not be smooth in locations exposed to halogen lamps or in outdoor locations.
- The POWERbot uses 3 types of infrared devices and a device may not work in front of another device with a higher priority.
  - Infrared signal Priority: Remote control > Virtual guard > Charger
- When controlling POWERbot with the remote control, POWERbot may cross the invisible barrier set by the Virtual guard and enter the area you don't want it to enter, since remote control's signal has a higher priority.
- Different infrared signals may interfere with one another and cause malfunction to the devices if they are used together in a small space or in a close distance.
- Install the Virtual guard away from the charger as auto charging may be interrupted if the Virtual guard is near the charger.
- If more than one POWERbots are used simultaneously, they may malfunction due to interference of the infrared signals.

Information codes

1 Below information codes appear on the display panel

2 Turn off the emergency switch and check the below instructions and take appropriate action

3 Information code will disappear when you turn on the emergency switch

Information codes	Checklist
	The POWERbot is caught, stuck or trapped while moving around. ▶Turn off the emergency switch and move the POWERbot to another area.
C 01	**Foreign matter caught in the Power brush.** ▶Turn off the emergency switch and remove the foreign matter from the Power brush.
C 02	**Foreign matter caught in the left Driving wheel.** ▶Turn off the emergency switch and remove the foreign matter from the Driving wheel.
C 03	**Foreign matter caught in the right Driving wheel.** ▶Turn off the emergency switch and remove the foreign matter from the Driving wheel.
C 05	**Bumper sensor needs to be checked.** ▶Turn off the emergency switch and turn it back on. ▶When information code does not disappear, check if there's any small foreign matter between the bumper and the main body. If there is, pull the bumper slightly and remove the foreign matter.
C 06	**Foreign matter accumulated on the obstacle sensor.** ▶Turn off the emergency switch and clean the front and rear sensor with a soft cloth.
C 07	**Foreign matter accumulated on the cliff sensor.** ▶Turn off the emergency switch and clean the cliff sensor with a soft cloth.

Troubleshooting

Symptom	Checklist
The POWERbot is not working at all.	▶Check if the emergency switch is on. ▶Check if all the icons are displayed on display panel. ▶Check if the battery of POWERbot is depleted. – When "Lo" is displayed, carry POWERbot to the charger to charge it. ▶Replace the batteries (AAA type) when the remote controller is not working.
The POWERbot is stopped during cleaning process.	▶When "Lo" is displayed on the display panel, carry POWERbot to the charger to charge it. ▶When POWERbot is stuck by the obstacles such as cord, threshold etc, pick it up to remove it from the obstacle. – If any fabrics or strings are caught in the drive wheel, turn off the emergency switch and remove the fabrics or strings before using it again.
Suction power is weak.	▶If the "Filter inspection indicator" is on, turn off the emergency switch and clean the dustbin. ▶When there's too much dust in the dustbin, suction power may get weakened. Turn off the emergency switch and empty the dustbin. ▶If the intake (on bottom of POWERbot) is blocked by foreign matters, turn off the emergency switch and remove foreign matter from the intake. ▶When noise suddenly increase, turn off the emergency switch and empty the dustbin.
The POWERbot cannot find the charger.	▶Check if there's power failure or whether the power plug is unplugged. ▶Remove any obstacles around the charger that may disturb POWERbot from returning to the charger. ▶When there's foreign matters on the charge pins that affects charging, clean the foreign matter.
The POWERbot passes through the Virtual guard.	▶If the batteries are depleted, replace them. (2 type D (LR20) batteries) ▶If the lamp is off, check if the Virtual guard is turned off and turn it on.
The POWERbot suddenly cleans diagonally.	▶Check if the charger is installed along the grain of wooden floors or tiles. ▶It may clean in diagonal direction for moving to another area in shortest route, or it made contact with any obstacles in that angle, or if it was charged at the charged at an angle, or grain of the wooden/tile floor is in that direction.
Point cleaning is not working.	▶If you point the red light directly on POWERbot, it may not move to desired direction. – Point the red light on the floor within 1 m around POWERbot. ✻Do not use the point cleaning under direct sunlight, bright light or on dark floors.
"Filter inspection indicator" is on even after the dustbin has been emptied.	▶Use POWERbot after turning off the emergency switch and then turning it back on. ▶Empty the dustbin again and re-clean the filter thoroughly.

Troubleshooting

Symptom	Checklist
POWERbot moves around at the same place.	▶Dust sensor mode is on. – The dust sensor mode is on by default. When the POWERbot passes through a dusty area, it moves around that area to focus on cleaning. ▶POWERbot moves around an area and the "DUST" is on the display panel even though there's no dust at the surrounding area. – Check if foreign matters are caught between the dustbin and power brush and then remove them.
POWERbot does not clean a certain area.	▶Check if the charger is installed near a narrow passage or door, and reinstall it in the other areas. – If the charger is installed near a narrow passage or door, the POWERbot cannot pass through the passage or doorsill.
The battery usage time of the Virtual guard is too short.	▶Check if you're using manganese drycell batteries and replace the batteries with new ones. (2 type D (LR20) batteries)
I have installed the Samsung Smart Home app, but, the POWERbot fails to be connected.	▶You can use the product after connecting the wireless router and the POWERbot through Easy-Setup according to the procedure.
I fail to log into the Samsung account.	▶Check your ID and password on the screen of the Samsung account.
There appears a message saying there is a failure during Easy-Setup.	▶You may have failed temporarily due to the distance from the wireless router or other obstacles. Please try again after a while.
The products do not work even though the smart phone is normally connected to the POWERbot.	▶Turn off the Samsung Smart Home app and then run it again, or disconnect the smart phone from the wireless router and then connect it again. Or turn off the power supply of the POWERbot, turn it on, wait for a minute or longer, and then run the Smart Home app again.
The functions of the Samsung Smart Home App do not work.	▶Check if the remote control blocking function of the POWERbot is set. (If the Wi-Fi indicator is turned off, the remote control is locked.)
The Samsung Smart Robot Vacuum App fails to get started.	▶Check if the POWERbot is connected to the wireless router.
POWERbot is not connected to Wi-Fi.	▶Check the setting status of the wireless router.

Open Source Announcement

The software included in this product contains open source software. You may obtain the complete corresponding source code for a period of three years after the last shipment of this product by sending an email to mailto:oss.request@samsung.com.

It is also possible to obtain the complete corresponding source code in a physical medium such as a CD-ROM; a minimal charge will be required.

The following URL http://opensource.samsung.com/opensource/VR9200/seq/0 leads to the download page of the source code made available and open source license information as related to this product. This offer is valid to anyone in receipt of this information.

Specifications

Classification	Item	Detail information	
Mechanical specifications (POWERbot)	Size (Depth x Height x Length)	378 mm x 135 mm x 362 mm	
	Weight	4.8 kg	
	Sensor	Ceiling shape recognition (Visionary mapping plus TM)	
	Button type of POWERbot	Touch type	
Power specifications	Power voltage	100 - 240 V~, 50 Hz / 60 Hz	
	Power consumption	180 W (Max mode)	
	Battery specifications	Lithium ion 21.6 V / 78 Wh	
Cleaning	Charging type	Automatic charging/Manual charging	
	Cleaning mode	Auto, Spot, Manual	
	Scheduling function	One-time schedule, Daily schedule	
	Charging time	Approximately 160 minutes	
	Cleaning time (On the basis of hard floor)	Max mode	Approximately 30 minutes
		Normal mode	Approximately 60 minutes
		Quiet mode	Approximately 100 minutes

Note

If you have any questions or comments relating to Samsung products,
please contact the SAMSUNG customer care center.

Country	Customer Care Center	Web Site
U.K	0330 SAMSUNG (7267864)	www.samsung.com
SOUTH AFRICA	0860 7267864 (SAMSUNG)	www.samsung.com
AUSTRALIA	1300 362 603	www.samsung.com
HONG KONG	(852) 3698-4698	www.samsung.com/hk www.samsung.com/hk_en/
MALAYSIA	1800-88-9999	www.samsung.com
SINGAPORE	1800-SAMSUNG (7267864)	www.samsung.com/ch_fr/(French)

DJ68-00732B-00